

IN THE CLAIMS

Please amend claims 4-8 and 12-16; cancel claims 1-3, 9-11, 17-20 and 22-24; and add claims 25-38 as follows:

1. Canceled
2. Canceled
3. Canceled
4. The information processing apparatus according to claim 1, An information processing apparatus to record streaming data in a storage device, comprising:

a first bus to transfer various data;

a first processor that manages, as a file, data recorded in the storage device;

a receiver that receives externally supplied streaming data;

a second bus to transfer the streaming data received by the receiver;

a third bus electrically coupled to the storage device; and

a second processor electrically coupled to the first bus, the second bus, and the third bus,

and storing in the storage device via the third bus the streaming data input from the receiver via

the second bus and file management information input from the first processor via the first bus,

in response to an access request input from the first processor via the first bus, wherein

the second processor includes: a buffer memory assigned within a memory address space accessible by the first processor and temporarily stores the streaming data input from the receiver via the second bus; means for sending to the first processor, via the first bus, pointer information representing a memory address indicative of a storage location in the buffer memory where the streaming data is stored, and a data size of the stored streaming data, and the first processor includes: means for generating an access request for instructing the second processor to write the streaming data stored in the buffer memory into the storage device, based on the pointer

information sent from the second processor; and means for sending the generated access request to the second processor via the first bus.

5. (Currently Amended) The information processing apparatus according to claim [[1]] 4, wherein the streaming data received by the receiver includes compression-encoded video data, and the second processor includes: a decoder that decodes the streaming data stored in the storage device, in accordance with a decode request sent from the first processor via the first bus; and a video output interface that outputs the decoded streaming data to an external video monitor as video data, in accordance with a reproduction request sent from the first processor via the first bus.

6. (Currently Amended) ~~The information processing apparatus according to claim 1,~~  
~~wherein the information processing apparatus is connected to a terminal via a network, An~~  
information processing apparatus to record streaming data in a storage device, comprising:  
a first bus to transfer various data; a first processor that manages, as a file, data recorded  
in the storage device;

a receiver that receives externally supplied streaming data; a second bus to transfer the  
streaming data received by the receiver;

a third bus electrically coupled to the storage device;

a second processor electrically coupled to the first bus, the second bus, and the third bus,  
and storing in the storage device via the third bus the streaming data input from the receiver via  
the second bus and file management information input from the first processor via the first bus,  
in response to an access request input from the first processor via the first bus; and

a third processor electrically connected coupled to the first bus and communicating with  
[[the]] a terminal on [[the]] a network, the third processor issuing, to the second processor via the

first bus, a disk access request instructing the second processor to read out the streaming data from the storage device, to transmit the streaming data stored in the storage device to the terminal via the network.

7. (Currently Amended) ~~The information processing apparatus according to claim 1, further including An information processing apparatus to record streaming data in a storage device, comprising:~~

a first bus to transfer various data; a first processor that manages, as a file, data recorded in the storage device;

a receiver that receives externally supplied streaming data; a second bus to transfer the streaming data received by the receiver;

a third bus electrically coupled to the storage device;

a second processor electrically coupled to the first bus, the second bus, and the third bus, and storing in the storage device via the third bus the streaming data input from the receiver via the second bus and file management information input from the first processor via the first bus, in response to an access request input from the first processor via the first bus; and

a fourth bus that transfers display data to the second processor, wherein the second processor includes: an interface unit that receives the display data from the first processor via the fourth bus; and means for converting the display data received by the interface unit to video data, which is output to an external video monitor, in accordance with a reproduction request sent from the first processor via the first bus.

8. (Currently Amended) The information processing apparatus according to claim [[1]] 4, further including a control bus to connect the receiver and the second processor, wherein the receiver is a tuner unit that receives broadcast content data composed of streaming data, and the

second processor transmits to the receiver via the control bus, control information indicative of a channel broadcast program to which ~~ehannel broadcast program~~ data to be received belongs, in accordance with a channel select request input from the first processor via the first bus.

9. (Canceled)

10. (Canceled)

11. Canceled

12. (Currently Amended) The information processing apparatus according to claim 9, An information processing apparatus to record streaming data in a disk storage device, comprising:  
a bus; a first processor that manages, as a file, data recorded in the disk storage device;  
a receiver that receives externally supplied streaming data; and  
a second processor that executes, based on a disk access request input from the first  
processor, a write process to write data and file management information input via the bus into  
the disk storage device, and a read-out process to read out data constituting a file, which is stored  
in the disk storage device, onto the bus, the second processor including a first interface unit  
electrically coupled to the disk storage device, and a second interface unit electrically coupled to  
the receiver, and the second processor writing, when a disk access request from the first  
processor instructs writing the streaming data into the disk storage device, the streaming data  
input from the receiver to the second interface unit and file management information input from  
the first processor via the bus into the disk storage device via the first interface unit, wherein  
the second processor includes: a buffer memory assigned within a memory address space  
accessible by the first processor and temporarily stores the streaming data input to the second  
interface unit; means for sending to the first processor, via the bus, pointer information  
representing a memory address indicative of a storage location on the buffer memory where the

streaming data is stored, and a data size of the stored streaming data, and the first processor includes: means for generating a disk access request to instruct the second processor to write the streaming data stored in the buffer memory into the disk storage device, based on the pointer information sent from the first processor; and means for sending the generated disk access request to the second processor via the first bus.

13. (Currently Amended) The information processing apparatus according to claim [[9]] 12, wherein the streaming data received by the receiver includes compression-encoded video data, and the second processor includes: a third interface unit that outputs video data to an external video monitor; means for decoding the streaming data received by the receiver, in accordance with a decode request sent from the first processor via the bus; and means for outputting the decoded streaming data to the third interface unit, in accordance with a reproduction request sent from the first processor via the bus.

14. (Currently Amended) ~~The information processing apparatus according to claim 9, wherein the information processing apparatus is connected to a terminal via a network, and the information processing apparatus further includes An information processing apparatus to record streaming data in a disk storage device, comprising:~~

a bus; a first processor that manages, as a file, data recorded in the disk storage device;  
a receiver that receives externally supplied streaming data;  
a second processor that executes, based on a disk access request input from the first processor, a write process to write data and file management information input via the bus into the disk storage device, and a read-out process to read out data constituting a file, which is stored in the disk storage device, onto the bus, the second processor including a first interface unit electrically coupled to the disk storage device, and a second interface unit electrically coupled to

the receiver, and the second processor writing, when a disk access request from the first processor instructs writing the streaming data into the disk storage device, the streaming data input from the receiver to the second interface unit and file management information input from the first processor via the bus into the disk storage device via the first interface unit; and

a third processor ~~connected~~ coupled to the bus and communicating with the terminal on the network, the third processor issuing, to the second processor via the bus, a disk access request instructing the second processor to read out the streaming data from the disk storage device, to transmit the streaming data stored in the disk storage device to the terminal via the network.

15. (Currently Amended) ~~The information processing apparatus according to claim 9, An~~ information processing apparatus to record streaming data in a disk storage device, comprising:

a bus;

a first processor that manages, as a file, data recorded in the disk storage device;

a receiver that receives externally supplied streaming data; and

a second processor that executes, based on a disk access request input from the first processor, a write process to write data and file management information input via the bus into the disk storage device, and a read-out process to read out data constituting a file, which is stored in the disk storage device, onto the bus, the second processor including a first interface unit electrically coupled to the disk storage device, and a second interface unit electrically coupled to the receiver, and the second processor writing, when a disk access request from the first processor instructs writing the streaming data into the disk storage device, the streaming data input from the receiver to the second interface unit and file management information input from the first processor via the bus into the disk storage device via the first interface unit, wherein

the second processor includes: a third interface unit that outputs video data to an external video monitor; a fourth interface unit that receives display data from the first processor; and means for converting the display data received by the fourth interface unit to the video data, which is output to the external video monitor via the third interface unit, in accordance with a reproduction request sent from the first processor via the bus.

16. (Currently Amended) The information processing apparatus according to claim [[9]] 12, further including a control bus to connect the receiver and the second processor, wherein the receiver is a tuner unit that receives broadcast content data composed of streaming data, and the second processor transmits, to the receiver via the control bus, control information indicative of to which channel broadcast program data to be received belongs, in accordance with a channel select request input from the first processor.

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Original) A method of recording streaming data, comprising: issuing a channel instruction by a first processor to a second processor indicative of a channel number of broadcast content data to be received; transmitting control information, from the second processor to a receiver, indicative of a channel to which the broadcast content data to be received belongs, based on the channel instruction issued by the first processor; receiving the broadcast content data by the receiver and transmitting the broadcast content data to the second processor via a dedicated bus; writing the broadcast content data received by the second processor into a buffer memory; transmitting pointer information from the second processor to the first processor;

generating a disk access request by the first processor based on the pointer information received from the second processor, and transmitting the disk access request to the second processor; and executing a process to write data into a storage device by the second processor based on the disk access request received from the first processor.

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (New) The information processing apparatus according to claim 4, wherein the streaming data is broadcast content data, and the receiver includes a tuner unit that receives the broadcast content data.

26. (New) The information processing apparatus according to claim 12, wherein the streaming data is broadcast content data, and the receiver includes a tuner unit that receives the broadcast content data.

27. (New) The information processing apparatus according to claim 4, wherein the information processing apparatus is coupled to a terminal via a network, and the information processing apparatus further includes a third processor electrically coupled to the first bus and communicating with the terminal on the network, the third processor issuing, to the second processor via the first bus, a disk access request instructing the second processor to read out the streaming data from the storage device, to transmit the streaming data stored in the storage device to the terminal via the network.

28. (New) The information processing apparatus according to claim 4, further including a fourth bus that transfers display data to the second processor, wherein the second processor includes: an interface unit that receives the display data from the first processor via the fourth

bus; and means for converting the display data received by the interface unit to video data, which is output to an external video monitor, in accordance with a reproduction request sent from the first processor via the first bus.

29. (New) The information processing apparatus according to claim 6, wherein the streaming data is broadcast content data, and the receiver includes a tuner unit that receives the broadcast content data.

30. (New) The information processing apparatus according to claim 6, wherein the second processor includes a buffer memory assigned within a memory address space accessible by the first processor and temporarily stores the streaming data input from the receiver via the second bus, and

the first processor sends, to the second processor via the first bus, an access request for instructing the second processor to write the data stored in the buffer memory into the storage device.

31. (New) The information processing apparatus according to claim 7, wherein the streaming data is broadcast content data, and the receiver includes a tuner unit that receives the broadcast content data.

32. (New) The information processing apparatus according to claim 7, wherein the second processor includes a buffer memory assigned within a memory address space accessible by the first processor and temporarily stores the streaming data input from the receiver via the second bus, and

the first processor sends, to the second processor via the first bus, an access request for instructing the second processor to write the data stored in the buffer memory into the storage device.

33. (New) The information processing apparatus according to claim 12, wherein the information processing apparatus is coupled to a terminal via a network, and the information processing apparatus further includes a third processor coupled to the bus and communicating with the terminal on the network, the third processor issuing, to the second processor via the bus, a disk access request instructing the second processor to read out the streaming data from the disk storage device, to transmit the streaming data stored in the disk storage device to the terminal via the network.

34. (New) The information processing apparatus according to claim 12, wherein the second processor includes:

a third interface unit that outputs video data to an external video monitor;

a fourth interface unit that receives display data from the first processor; and

means for converting the display data received by the fourth interface unit to the video data, which is output to the external video monitor via the third interface unit, in accordance with a reproduction request sent from the first processor via the bus.

35. (New) The information processing apparatus according to claim 14, wherein the streaming data is broadcast content data, and the receiver includes a tuner a unit that receives the broadcast content data.

36. (New) The information processing apparatus according to claim 14, wherein the second processor includes a buffer memory assigned within a memory address space accessible by the first processor and temporarily stores the streaming data input to the second interface unit, and the first processor sends, to the second processor via the bus, an access request to instruct the second processor to write the data stored in the buffer memory into the disk storage device.

37. (New) The information processing apparatus according to claim 15, wherein the

streaming data is broadcast content data, and the receiver includes a tuner unit that receives the broadcast content data.

38. (New) The information processing apparatus according to claim 15, wherein the second processor includes a buffer memory assigned within a memory address space accessible by the first processor and temporarily stores the streaming data input to the second interface unit, and the first processor sends, to the second processor via the bus, an access request to instruct the second processor to write the data stored in the buffer memory into the disk storage device.

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